EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Algebraic Expressions and Identities

Grade : CBSE Grade VIII

1. $(-\frac{2}{3}a+3b)(-\frac{2}{3}a-3b)$

   (i) $(\frac{4}{9}a^2-9b^2)$ (ii) $(\frac{4}{9}a^2-11b^2)$ (iii) $(\frac{4}{11}a^2-9b^2)$ (iv) $(\frac{4}{7}a^2-9b^2)$ (v) $(\frac{4}{9}a^2-7b^2)$

2. The value of $(-4km-8lm+2l)+(-9kl-7km-7m)$ is

   (i) $(-10kl-11km-8lm+2l-7m)$ (ii) $(-8kl-11km-8lm+2l-7m)$ (iii) $(-9kl-14km-8lm+2l-7m)$

   (iv) $(-9kl-11km-8lm+2l-7m)$ (v) $(-9kl-8km-8lm+2l-7m)$

3. The value of $(ef-9f+7)+(4ef+9e-2)$ is

   (i) $(4ef+9e-9f+5)$ (ii) $(6ef+9e-9f+5)$ (iii) $(5ef+12e-9f+5)$ (iv) $(5ef+9e-9f+5)$

   (v) $(5ef+6e-9f+5)$

4. The value of $(-5s+7)+(-6s-4)$ is

   (i) $(-8s+3)$ (ii) $(-12s+3)$ (iii) $(-13s+3)$ (iv) $(-10s+3)$ (v) $(-11s+3)$

5. The value of $(-5x^4-9x^2-9)+(-x^4+5x^2-7x)+(9x^5+2x^4-5x^3)+(-x^5-6x^3-6x)$ is

   (i) $(7x^5-4x^4-11x^3-4x^2-13x-9)$ (ii) $(9x^5-4x^4-11x^3-4x^2-13x-9)$

   (iii) $(8x^5-4x^4-11x^3-4x^2-13x-9)$ (iv) $(10x^5-4x^4-11x^3-4x^2-13x-9)$

   (v) $(5x^5-4x^4-11x^3-4x^2-13x-9)$

6. The value of $(-5jk-3j+5)-(9jl-7j+l)$ is

   (i) $(-4jk-9jl+4j-l+5)$ (ii) $(-6jk-9jl+4j-l+5)$ (iii) $(-5jk-11jl+4j-l+5)$ (iv) $(-5jk-9jl+4j-l+5)$

   (v) $(-5jk-7jl+4j-l+5)$

7. The coefficient of term st^2 in polynomial $(-5s^3t^3u-6s^3tu-2s^2t^3u^3-3st^2u^3+5st^2-8stu-2t^3)$ is

   (i) 2 (ii) 4 (iii) 5 (iv) 6 (v) 7

8. The value of $(-2klm)\times(-5km)$ is

   (i) $10k^2l^2m^2$ (ii) $13k^2l^2m^2$ (iii) $8k^2l^2m^2$ (iv) $11k^2l^2m^2$ (v) $9k^2l^2m^2$

9. Which of the following terms can be subtracted from $(-4c^2db)$?

   (i) $(-b^2cd)$ (ii) $(-8bc^2d)$ (iii) bcd (iv) $(-8bc^2d^2)$ (v) $(-9bcd^2)$

10. The value of $(-9vw)-4vw-4vw-6vw$ is

    (i) $(-23vw)$ (ii) $(-26vw)$ (iii) $(-22vw)$ (iv) $(-20vw)$ (v) $(-24vw)$

11. The value of $7op + 6op$ is

(i) $12op$ (ii) $10op$ (iii) $15op$ (iv) $14op$ (v) $13op$

12. $(-a+4b)(-a-4b)$

(i) (a^2-19b^2) (ii) $(2a^2-16b^2)$ (iii) $(-16b^2)$ (iv) (a^2-13b^2) (v) (a^2-16b^2)

13. The value of $\frac{1}{3}k(\frac{1}{2}kl^2+\frac{3}{4}l^2)$ is

(i) $(\frac{1}{6}k^2l^2-\frac{1}{4}kl^2)$ (ii) $(\frac{1}{6}k^2l^2+\frac{3}{4}kl^2)$ (iii) $(\frac{1}{4}k^2l^2+\frac{1}{4}kl^2)$ (iv) $(\frac{1}{8}k^2l^2+\frac{1}{4}kl^2)$ (v) $(\frac{1}{6}k^2l^2+\frac{1}{4}kl^2)$

14. The value of $\frac{1}{2}\times\frac{2}{3}p$ is

(i) p (ii) $\frac{1}{3}p$ (iii) $\frac{1}{5}p$ (iv) $(-\frac{1}{3}p)$

15. The sum of the terms $(-4uv), 7uv, u, 4u, (-2u)$ is

(i) $(3uv+5u)$ (ii) $(4uv+3u)$ (iii) $(2uv+3u)$ (iv) $(3uv+3u)$ (v) $(3uv+u)$

16. The value of $(-2jk-4j+8)-(-8j-10k-1)$ is

(i) $(-2jk+7j+10k+9)$ (ii) $(-3jk+4j+10k+9)$ (iii) $(-jk+4j+10k+9)$ (iv) $(-2jk+2j+10k+9)$

(v) $(-2jk+4j+10k+9)$

17. Which of the following terms can be added to $8kjl$?

(i) $(-2jkl^2)$ (ii) $(-7j^2k^2l)$ (iii) $9j^2k^2l^2$ (iv) $(-5jk^2l)$ (v) $7jkl$

18. The value of $7k+(-k)$ is

(i) $6k$ (ii) $4k$ (iii) $5k$ (iv) $7k$ (v) $9k$

19. The value of $(-3a^4-7a-2)-(6a^5+5a^4+7a)-(-9a^5+2a^4-4)$ is

(i) $(3a^5-10a^4-14a+2)$ (ii) $(4a^5-10a^4-14a+2)$ (iii) $(a^5-10a^4-14a+2)$ (iv) $(2a^5-10a^4-14a+2)$

(v) $(6a^5-10a^4-14a+2)$

20. The value of $\frac{1}{2}i\times\frac{1}{2}j\times\frac{3}{4}ij\times\frac{1}{2}ij$ is

(i) $\frac{1}{10}i^3j^3$ (ii) $\frac{1}{32}i^3j^3$ (iii) $\frac{3}{32}i^3j^3$ (iv) $\frac{5}{32}i^3j^3$ (v) $\frac{3}{34}i^3j^3$

21. The value of $\frac{1}{2}q^3-\frac{3}{5}q^3$ is

(i) $(-\frac{1}{10}q^3)$ (ii) $(-\frac{1}{8}q^3)$ (iii) $\frac{1}{10}q^3$ (iv) $(-\frac{3}{10}q^3)$ (v) $(-\frac{1}{12}q^3)$

22. Which of the following terms is a like term of 1 ?

(i) $9g^4$ (ii) $(-6g)$ (iii) 4 (iv) $5g^2$ (v) $(-6g^3)$

23. Which of the following is a like term of $(-3r)$?

(i) $(-9r)$ (ii) $4st^2$ (iii) $(-3rs^2)$ (iv) $(-5rs)$ (v) $(-3r^2)$

24. The coefficient of term g in polynomial $(-4g^4+g^3-3g^2-8g+8)$ is

(i) -9 (ii) -6 (iii) -7 (iv) -11 (v) -8

25. The value of $(-9e+2)\times(-8e^2-5e)\times(6e-1)$ is

(i) $(434e^4+102e^3-89e^2+10e)$ (ii) $(432e^4+102e^3-89e^2+10e)$ (iii) $(431e^4+102e^3-89e^2+10e)$

(iv) $(429e^4+102e^3-89e^2+10e)$ (v) $(433e^4+102e^3-89e^2+10e)$

Assignment Key

1) (i)	2) (iv)	3) (iv)	4) (v)	5) (iii)	6) (iv)
7) (iii)	8) (i)	9) (ii)	10) (i)	11) (v)	12) (v)
13) (v)	14) (ii)	15) (iv)	16) (v)	17) (v)	18) (i)
19) (i)	20) (iii)	21) (i)	22) (iii)	23) (i)	24) (v)
25) (ii)					